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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,809	06/28/2007	Jagdish Narayan	CH8498US/CH04-27US	4923
	7590 04/01/200 ERIAL SCIENCE LLC	EXAMINER		
100 BAYER RO		LANGMAN, JONATHAN C		
PITTSBURGH, PA 15205			ART UNIT	PAPER NUMBER
			1794	
			NOTIFICATION DATE	DELIVERY MODE
			04/01/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

veronica.thompson@bayerbms.com bmspatents@bayerbms.com donna.veatch@bayerbms.com

		Application No.	Applicant(s)				
Office Action Summary		10/593,809	NARAYAN ET AL.				
		Examiner	Art Unit				
		JONATHAN C. LANGMAN	1794				
Period fo	The MAILING DATE of this communication apports. Reply	pears on the cover sheet with the o	correspondence address				
WHIC - Exter after - If NC - Failu Any r	CRTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DISSIDER IS LONGER, FROM THE MAILING DISSIDER IS A STATE OF THE MAILING DEPTH O	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on <u>18 S</u>	September 2007					
· · · · · · · · · · · · · · · · · · ·		s action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٥/١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	·	=x parto Quayro, 1000 0.D. 11, 10	30 3.3.210.				
Dispositi	on of Claims						
4)🛛	☑ Claim(s) <u>1-28</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)□	6) Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)🖂	Claim(s) <u>1-28</u> are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
-	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
.0/	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
		difficitive the attached office	A Action of Ionn't To To2.				
Priority ι	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate				

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-4 and 24 drawn to an article.

Group II, claim(s) 5-8, 25 and 26 drawn to an article.

Group III, claim(s) 9-11 and 23 drawn to an article.

Group IV, claim(s) 12-22, drawn to a method.

Group V, claim(s) 27-28, drawn to a method.

The inventions listed as Groups I-V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

(1) The special technical feature for each group is not commonly shared.

In particular, the special technical feature of Group I is nanocrystalline tantalum. The special technical feature of Group II is single crystalline tantalum. The special technical feature of group III is amorphous tantalum. The special technical feature of group IV is the deposition parameters. The special technical feature of group V is quenching. Therefore, the inventions or groups of inventions lack unity.

(2) The common feature of groups I cannot qualify as a special technical feature as it does not provide a contribution over the prior art because it is disclosed by Pinto et al., Hoogevan et al., Parfitt et al., Ge et al., and Chiang et al. (see the international search report).

In particular, the prior art cited in the international search report teaches nanocrystalline tantalum and methods of achieving it. Therefore, the reference(s) specifically suggests using the common elements as claimed.

A telephone call was made to Aaron Ettleman on March 20, 2009 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JONATHAN C. LANGMAN whose telephone number is

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(571)272-4811. The examiner can normally be reached on Mon-Thurs 8:00 am - 6:30

pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jennifer McNeil can be reached on 571-272-1540. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JCL

/Timothy M. Speer/

Primary Examiner, Art Unit 1794